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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/918,380	07/30/2001	Indra Laksono	VIXS.0100090	9961

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EXAMINER
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ART UNIT	PAPER NUMBER
2613	

DATE MAILED: 01/24/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Office Action Summary	Application No. 09/918,380	Applicant(s) LAKSONO ET AL.
		Examiner Nhon T. Diep	Art Unit 2613

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE _3_ MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.
- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1)☒ Responsive to communication(s) filed on _10/20/2005_.

2a)☒ This action is **FINAL**. 2b)☐ This action is non-final.

3)☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4)☒ Claim(s) _13-52_ is/are pending in the application.

    4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5)☐ Claim(s) _____ is/are allowed.

6)☒ Claim(s) _13-52_ is/are rejected.

7)☐ Claim(s) _____ is/are objected to.

8)☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9)☐ The specification is objected to by the Examiner.

10)☒ The drawing(s) filed on _30 July 2001_ is/are: a)☒ accepted or b)☐ objected to by the Examiner.

    Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

    Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11)☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12)☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

    a)☐ All b)☐ Some * c)☐ None of:

      1.☐ Certified copies of the priority documents have been received.

      2.☐ Certified copies of the priority documents have been received in Application No. _____.

      3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

    * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) ☒ Notice of References Cited (PTO-892)

2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
    Paper No(s)/Mail Date _8/2005_.

4) ☐ Interview Summary (PTO-413)
    Paper No(s)/Mail Date. _____.

5) ☐ Notice of Informal Patent Application (PTO-152)

6) ☐ Other: _____.

U.S. Patent and Trademark Office

PTOL-326 (Rev. 7-05)   Office Action Summary   Part of Paper No./Mail Date 20060120

DETAILED ACTION

Response to Arguments

1.   In response to applicant's arguments on page 11, lines 5-12 of the remark filed

10/20/2005, the recitation "An integrated single chip system" in claim 13, line 1 has not

been given patentable weight because the recitation occurs in the preamble. A

preamble is generally not accorded any patentable weight where it merely recites the

purpose of a process or the intended use of a structure, and where the body of the

claim does not depend on the preamble for completeness but, instead, the process

steps or structural limitations are able to stand alone. See *In re Hirao*, 535 F.2d 67, 190

USPQ 15 (CCPA 1976) and *Kropa v. Robie*, 187 F.2d 150, 152, 88 USPQ 478, 481

(CCPA 1951). With regard to the applicants' argument that the Office Action fails to

address how Wang discloses a first processor to provide parsed video data and a

second processor access the parsed video data (page 11, ln. 10-13). The examiner

respectfully disagrees and believes that fig. 3 of a transcoder as indicated in the

rejection of claim 13 (and fig. 4 shows detailed transcoder which has a cascaded

decoder/encoder) is adequate to show a first processor to analyze (el. 410, VLD

analyzes header information of input compressed bitstream and separates MV from

other data) video data and a second processor (el. 420-430-440-222-225-...) access

the parsed video data and is a transcoder.

2.   With regard to claim 36, which claims "wherein the first memory and the second

memory comprise <u>a same memory</u>". The examiner interprets "a same memory" as <u>a</u>

<u>same type of memory</u> read in light of the specification, page 5, lines 18-27.

Claim Rejections - 35 USC § 102

3.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in a patent granted on an application for patent by another filed in the
United States before the invention thereof by the applicant for patent, or on an international application
by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this
title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act

of 1999 (AIPA) and the Intellectual Property and High Technology Technical

Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting

directly or indirectly from an international application filed before November 29, 2000.

Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior

to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

4.   Claims 13-29 are rejected under 35 U.S.C. 102(e) as being anticipated by Wang

et al as indicated in the previous Office Action.

5.   The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that

form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public
use or on sale in this country, more than one year prior to the date of application for patent in the United
States.

6.   Claims 30-35 and 37-52 are rejected under 35 U.S.C. 102(b) as being

anticipated by Liu (EP 0 889 650 A2).

Liu discloses a method and apparatus for processing a bitstream comprising the

same method comprising: receiving one or more packets having a video data payload

and information related to the video data payload, wherein the video data payloads of

the one or more packets represent a first channel of compressed video data having a

characteristic represented by a first value (fig. 2, el. 112, col. 7. ln. 12-31); and

transcoding (el. 114, 118, 130, 124) the video data payload of the one or more packets

to generate a representation of a second channel of compressed video data having the

characteristic represented by a second value (output 126 of el. 124) as specified in

claims 30 and 44; wherein the characteristic is a compression factor (col. 7, ln. 12-31)

as specified in claims 31 and 45; wherein the characteristic is a scale factor (col. 12, ln.

42-47) as specified in claims 32 and 46; wherein transcoding the video data payloads

comprises: decompressing the video data payload to generate a first intermediate data

(fig. 2, el. 114-116); scaling the first intermediate data to generate a second

intermediate data (el. 118-122); and compressing the second intermediate data to

generate the representation of the second channel (el. 124-126) as specified in claims

33 and 47; wherein transcoding the video data payloads comprises: decompressing the

video data payloads to generate a first intermediate data, wherein the first intermediate

data is frequency domain data (fig. 3, output of 207 = DCT coefficients (frequency

domain)); converting the first intermediate data to a second intermediate data (fig. 3,

output of 209 = original image (time domain)), wherein the second intermediate data is

time domain data having the characteristic represented by the first value (the original

image as being quantized by the original quantization step size Q1); converting the

second intermediate data to a third intermediate data having the characteristic

represented by the second value (output of el 209-bus 136-130-bus-140-309); and

compressing the third intermediate data to generate the representation of the second

channel (el. 307 with Q2-305-303-301-126) as specified in claims 34 and 48; wherein

receiving the one or more packets includes: storing the video data payload of the one or

more packets in a first memory (decoded bitstream processor 118) and storing the

information associated with the video data payloads in a second memory (forwarding

module 130 is used to stored and feed encoder bitstream information including motion

vector to encoder 124 and col. 17, ln. 19-26) as specified in claim 35; wherein video

data payloads are transcoded based at least in part on the information associated with

the video data payloads (re-used bitstream parameter: col. 7, ln. 56- col. 8, ln. 1 or col.

17, ln. 19-26) as specified in claims 37 and 49; wherein the information associated with

a video data payload indicates that the digital data payload includes one or more of

video time stamp information, picture configuration information, slice information,

macroblock information, motion vector information, quantizer matrix information, or

specific picture location information (re-used bitstream parameter: col. 7, ln. 56- col. 8,

ln. 1 or col. 17, ln. 19-26) as specified in claims 38 and 50; wherein receiving the one or

more packets and transcoding the video data payloads support a real-time play back of

the representation of the second channel (col. 22, ln. 12-18) as specified in claim 39;

further comprising: providing the representation of the second channel of compressed

video data for reception by at least one multimedia device (multimedia device =

television, radio, print and the internet, col. 1, ln. 22-40) as specified in claim 40; further

comprising: receiving, at a first data processor, a data stream including video data at a

first data processor; and parsing, at the first data processor, the data stream to identify

video data associated with a first channel; and packetizing, at the first data processor,

the video data associated with the first channel to generate the one or more packets

(fig. 2, el. 112-114) as specified in claims 41 and 51; receiving the one or more packets

and transcoding the video data payloads are performed at a second data processor (el.

122-126) as specified in claim 42; wherein the first data processor includes a general

purpose processor and the second data processor includes a video processor (el. 114

and 126) as specified in claims 43 and 52.

Claim Rejections - 35 USC § 103

7.   The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all

obviousness rejections set forth in this Office action:

> (a) A patent may not be obtained though the invention is not identically disclosed or described as set
> forth in section 102 of this title, if the differences between the subject matter sought to be patented and
> the prior art are such that the subject matter as a whole would have been obvious at the time the
> invention was made to a person having ordinary skill in the art to which said subject matter pertains.
> Patentability shall not be negatived by the manner in which the invention was made.

8.   Claim 36 is rejected under 35 U.S.C. 103(a) as being unpatentable over Liu.

As applied to claim 35 above, it is noted that Liu does not particularly disclose

that the buffer memories as used to hold video data payloads and associated video

information are the same type of buffer memory nor they are of the different type of

memory; however, in the absence of any contradictory teachings, it would have been

obvious to one of ordinary skilled in the art at the time the invention was made to

construct the first memory and the second memory as of the same type of memory for

the sake of simplicity.

Conclusion

9.   The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

     a. Youn et al (US 6,650,707) discloses a transcoding method and apparatus.

     b. Chen (US 6,259,741) discloses a method of architecture for converting

MPEG-2 4:2:2 profile bitstreams into main profile bitstreams.

10.   Applicant's amendment necessitated the new ground(s) of rejection presented in

this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37

CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE

MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not

mailed until after the end of the THREE-MONTH shortened statutory period, then the

shortened statutory period will expire on the date the advisory action is mailed, and any

extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

the advisory action. In no event, however, will the statutory period for reply expire later

than SIX MONTHS from the date of this final action.

11.   Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Nhon T. Diep whose telephone number is 571-272-

7328. The examiner can normally be reached on m-f.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mehrdad Dastouri can be reached on 571-272-7418. The fax phone

number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ND
1/20/2006

NHON DIEP
PRIMARY EXAMINER